BRAIN RESEARCH

VOL. 930 NOS. 1,2

CONTENTS **15 MARCH 2002**

Cited in Biological Abstracts (BIOSIS) – Chem. Abstracts – Index Medicus (MEDLINE) – Current Contents (Life Sci.) – EMBASE/Excerpta Medica – Psychological Abstracts (PsycINFO) – Pascal et Francis (INIST-CNRS) – RIS (Reference Update) – Elsevier BIOBASE/Current Awareness in Biological Sciences. Full text available in ScienceDirect® and Neuroscion.

Announcements

Brain Research Interactive Young Investigator Awards v

Call for Papers – Gene Expression Patterns vi

Guide for Authors vii

Themes and Topics xii

Interactive reports (Also accessible on the World Wide Web at **http://www.bres-interactive.com**)

Dual action of estrogen on glutamate-induced calcium signaling: mechanisms requiring interaction between estrogen receptors and src/mitogen activated protein kinase pathway
J. Nilsen, S. Chen, R.D. Brinton (USA) 216

Research reports

Non-granule PSA-NCAM immunoreactive neurons in the rat hippocampus
J. Nacher, J.M. Blasco-Ibáñez, B.S. McEwen (USA, Spain) 1

Rat strain differences in nicotine self-administration using an unlimited access paradigm
V.G. Brower, Y. Fu, S.G. Matta, B.M. Sharp (USA) 12

Long-term effects of St. John's wort and hypericin on monoamine levels in rat hypothalamus and hippocampus
V. Butterweck, T. Böckers, B. Korte, W. Wittkowski, H. Winterhoff (Germany) 21

The ability of amphetamine to evoke *arc* (Arg 3.1) mRNA expression in the caudate, nucleus accumbens and neocortex is modulated by environmental context
J.E. Klebaur, M.M. Ostrander, C.S. Norton, S.J. Watson, H. Akil, T.E. Robinson (USA) 30

Central urocortin activation of sympathetic-regulated energy metabolism in Wistar rats
B.A. De Fanti, J.A. Martínez (Spain) 37

Influence of the hyperpolarization-activated cation current, I_h, on the electrotonic properties of the distal apical dendrites of hippocampal CA1 pyramidal neurones
N. Fernandez, M. Andreasen, S. Nedergaard (Denmark) 42

Motoneuron morphological alterations before and after the onset of the disease in the wobbler mouse
B. Blondet, G. Carpentier, A. Ait-Ikhlef, M. Murawsky, F. Rieger (France) 53

Endogenous parathyroid hormone-related protein functions as a neuroprotective agent
O. Chatterjee, I.A. Nakchbandi, W.M. Philbrick, B.E. Dreyer, J.-P. Zhang, L.K. Kaczmarek, M.L. Brines, A.E. Broadus (USA) 58

Antibody directed against GD_2 produces mechanical allodynia, but not thermal hyperalgesia when administered systemically or intrathecally despite its dependence on capsaicin sensitive afferents
L.S. Sorkin, A.L. Yu, H. Junger, C.M. Doom (USA) 67

Mouse cerebral prostaglandins, but not oxidative damage, change with age and are responsive to indomethacin treatment
K.S. Montine, T.J. Montine, J.D. Morrow, B. Frei, D. Milatovic, F. Eckenstein, J.F. Quinn (USA) 75

Variability analyses suggest that supraspino–spinal interactions provide dynamic stability in motor control
H. Wang, R. Jung (USA) 83

Aluminum citrate uptake by immortalized brain endothelial cells: implications for its blood–brain barrier transport
R.A. Yokel, M. Wilson, W.R. Harris, A.P. Halestrap (USA, UK) 101

Selectivity of the protective effects of dihydropyridine calcium channel antagonists against the ethanol withdrawal syndrome
W.P. Watson, H.J. Little (UK) 111

(Contents continued inside)

0006-8993(20020315)930:1/2;1-U

(contents continued)

Removal of Ca^{2+} following depolarization-evoked cytoplasmic Ca^{2+} transients in freshly dissociated pyramidal neurones of the rat dorsal cochlear nucleus
C. Harasztosi, Á. Pór, Z. Rusznák, G. Szûcs (Hungary) 123

Behavioral activity and stereotypy in rats induced by L-DOPA metabolites: a possible role in the adverse effects of chronic L-DOPA treatment of Parkinson's disease
T. Nakazato, A. Akiyama (Japan) 134

Characterization of parkin in bovine peripheral nerve
A. Hase, H. Yamada, K. Arai, Y. Sunada, T. Shimizu, K. Matsumura (Japan) 143

Mu and delta opioid receptor-like immunoreactivity in the cervical spinal cord of the rat after dorsal rhizotomy or neonatal capsaicin: an analysis of pre- and postsynaptic receptor distributions
C. Abbadie, M.-C. Lombard, J.-M. Besson, J.A. Trafton, A.I. Basbaum (USA, France) 150

Antisense oligonucleotides to *N*-methyl-D-aspartate receptor subunits attenuate formalin-induced nociception in the rat
R. Yukhananov, J. Guan, G. Crosby (USA) 163

Expression and activity of antioxidants in the brain in progressive supranuclear palsy
I. Cantuti-Castelvetri, C.E. Keller-McGandy, D.S. Albers, M.F. Beal, J.-P. Vonsattel, D.G. Standaert, S.J. Augood (USA) 170

Influence of gender on dilatation of the basilar artery during diabetes mellitus
W.G. Mayhan, H. Sun, S.D. Irvine (USA) 182

Expression changes of somatostatin receptor subtypes sst2A, sst2B, sst3 and sst4 after a cortical contusion trauma in rats
H. Braun, S. Schulz, V. Höllt (Germany) 191

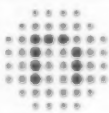
Short communications

Ischemic preconditioning reduces infarct volume after subdural hematoma in the rat
K.B. Mackay, T.H. Stiefel, A.C. Foster (USA) 200

Age-related changes in hypocretin (orexin) immunoreactivity in the cat brainstem
J.-H. Zhang, S. Sampogna, F.R. Morales, M.H. Chase (USA) 206

Electroencephalogram theta frequency changes in parallel with euthermic brain temperature
T. Deboer (The Netherlands) 212

Author index 235



neuroscion
a meeting of minds

To view articles from this journal, visit Neuroscion, the comprehensive neuroscience information service on the web.

Register today at **www.neuroscion.com**